

Docket No.: 41860-229250  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Taracha et al.

Art Unit: Not Yet Assigned

Application No: 10/573,033

Examiner: Not Yet Assigned

Confirmation No: 8939

Filed: March 22, 2006

Atty. Docket No: 41860-229250

For: ANTIGENS FOR AN EAST COAST  
FEVER VACCINE

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Customer No:

**26694**

PATENT TRADEMARK OFFICE

**REQUEST TO CORRECT INVENTORSHIP UNDER 37 C.F.R. § 1.48(a)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In accordance with 37 C.F.R. § 1.48(a), Applicant hereby requests correction of the inventorship of this application.

The desired inventorship change is the adding the following names as additional inventors on the application:

Elizabeth Jane Glew  
Simon Graham  
Nyerhovwo J. Tonukari  
Yoshikazu Honda  
Roger Pelle  
Duncan Mwangi  
Matasuke Yamage

Filed herewith are the following:

- (1) An Inventor Statement Under 37 C.F.R. § 1.48(a) made by the added inventors, Elizabeth Jane Glew; Simon Graham; Nyerhovwo J. Tonukari; Yoshikazu Honda; Roger Pelle; Duncan Mwangi; and Matasuke Yamage who state that the error in inventorship occurred without deceptive intention on their part;
- (2) Joint Assignee's Consent to Change of Inventorship;
- (3) New Declarations/Powers of Attorney executed by all of the named inventors; and
- (4) The processing fee of \$130.

Please charge or credit deposit account number 22-0261 accordingly and notify the undersigned.

Dated: February 22, 2007

Respectfully submitted,

By Nancy J. Axelrod  
Nancy J. Axelrod

Registration No.: 44,014  
VENABLE LLP  
P.O. Box 34385  
Washington, DC 20043-9998  
(202) 344-4000  
(202) 344-8300 (Fax)  
Attorney/Agent For Applicant

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Evans TARACHA et al.

International Appln. No.:  
PCT/US2004/030831

International Filing Date:  
Sept. 21, 2004

Application No.: 10/573033

Confirmation No.: Not Yet Assigned  
Art Unit: Not Yet Assigned  
Examiner: Not Yet Assigned

Filed: March 22, 2006

For: ANTIGENS FOR AN EAST COAST FEVER  
VACCINE

Customer No:

26694

PATENT TRADEMARK OFFICE

JOINT ASSIGNEE'S CONSENT TO CHANGE OF INVENTORSHIP

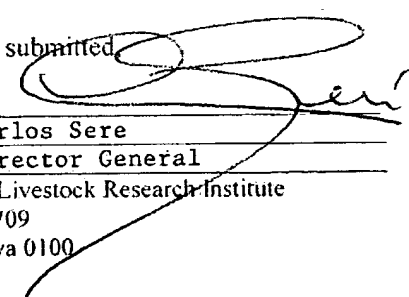
In accordance with 37 C.F.R. § 1.324, International Livestock Research Institute consents to the petition to change the inventorship of the above-referenced patent to add Jane Glew, Simon Graham, Nyerhovwo J. Onukari, Matasuke Yamage, Yoshikazu Honda, Roger Pellé, and Duncan Mwangi as joint inventors. Pursuant to 37 C.F.R. § 3.73(b), International Livestock Research Institute certifies that it is the joint assignee of the above-referenced invention by virtue of the assignment of inventors Jane Glew, Simon Graham, Nyerhovwo J. Onukari, Matasuke Yamage, Yoshikazu Honda, Roger Pellé, and Duncan Mwangi to International Livestock Research Institute, submitted herewith for recordation.

The undersigned has reviewed the assignment and to the best of the undersigned's knowledge and belief, [the title is in the said assignee]. The undersigned, whose title is supplied below, is empowered to sign this certificate on behalf of the said joint assignee.

I declare under penalty of perjury under the laws of the United States of America that the foregoing assignment information is true and correct.

Date: 12 January, 2007

Respectfully submitted

By:   
Name: Carlos Sere  
Title: Director General  
International Livestock Research Institute  
P. O. Box 30709  
Nairobi, Kenya 0100

**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JANUARY 25, 2007

PTAS

**\*500213131A\***

NANCY J. AXELROD

VENABLE LLP, 575 7TH STREET, N.W.

41060-22/341

WASHINGTON, DC 22030

~~\*500213131A\*~~

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 01/25/2007

REEL/FRAME: 018807/0079

NUMBER OF PAGES: 11

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

TARACHA, EVANS

DOC DATE: 01/12/2007

ASSIGNOR:

GLEW, ELIZABETH JANE

DOC DATE: 01/14/2007

ASSIGNOR:

GRAHAM, SIMON

DOC DATE: 01/10/2007

ASSIGNOR:

MWANGI, DUNCAN

DOC DATE: 01/11/2007

ASSIGNOR:

HONDA, YOSHIKAZU

DOC DATE: 10/18/2006

01880//00/9 PAGE 2

## ASSIGNOR:

PELLE, ROGER

DOC DATE: 01/10/2007

## ASSIGNOR:

TONUKARI, NYERHOVWO J.

DOC DATE: 11/07/2006

## ASSIGNOR:

YAMAGE, MATASUKE

DOC DATE: 01/12/2007

## ASSIGNOR:

NENE, VISHVANATH

DOC DATE: 01/10/2007

## ASSIGNEE:

INTERNATIONAL LIVESTOCK RESEARCH  
INSTITUTE  
P.O. BOX 30/09  
00100 GPO  
NAIROBI, KENYA

SERIAL NUMBER: 10564397

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: EAST COAST FEVER VACCINE BASED ON CTL-SPECIFIC SCHIZONT ANTIGENS

ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

WORLDWIDE ASSIGNMENT

Attorney Docket No.: 41860-205199

WHEREAS Evans TARACHA, Jane GLEW, Simon GRAHAM, Nyerhovwo J. ONUKARI, Matasuke YAMAGE, Yoshikazu HONDA, Roger PELLE, and Duncan MWANGI, hereinafter (collectively) referred to as the Assignor, has invented a certain improvement relating to ANTIGENS FOR AN EAST COAST FEVER VACCINE, for which said Assignor has caused an international PCT application to be prepared, which

[ ] the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office.

[ X ] said application having been filed in the USPTO on September 22, 2003, Serial Number 60/504,428;

[ X ] was filed under the Patent Cooperation Treaty on September 21, 2004, International Application No. PCT/US2004/030831, the United States of America being designated, with U.S. National Stage application Serial Number 10/573,033 filed on March 22, 2006;

WHEREAS International Livestock Research Institute, located in Nairobi, KENYA, hereinafter referred to as the Assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefore, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire and exclusive right, title, and interest for the United States in and to the invention, the application, and any patents which may be granted therefor, including any and all divisions, continuations, in whole or in part, substitutions, renewals, reissues, reexaminations, and extensions thereof, and all applications claiming priority therefrom; and Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the invention, or patents resulting therefrom, insofar as their interest is concerned, to Assignee; to have, hold, exercise, and enjoy, with all the rights, powers, privileges, and advantages in anywise arising therefrom or appertaining thereto, for and during the term or terms of any and all such patents when granted, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as Assignor might or could have held and enjoyed the same, if this assignment had not been made.

Assignor further hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire right, title and interest in all countries of the world, in and to the invention and in and to the application and all patents which may be granted therefor, and all national applications, regional applications, divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, including the right to file applications and obtain patents for the invention in its own name, in all countries and including all rights of priority in all countries under the terms of any applicable international convention, insofar as its interest is concerned; and the Assignor hereby authorizes and requests the applicable patent office in each country of the world to issue all patents for the invention, or patents resulting therefrom, insofar as its interest is concerned, to the Assignee, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of such patents for the invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

The Assignor further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agrees, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce proper patent protection for said invention.

IN WITNESS WHEREOF, each individual collectively referred to as Assignor has caused this Assignment to be executed.

This Assignment is effective retroactively as of September 21, 2004.

ASSIGNOR:

Signature: 

Name: Evans TARACHA

EXECUTED this 12 day of January, 2007.

WITNESS:

Signature: 

Address: 

WORLDWIDE ASSIGNMENT

-2-

Attorney Docket  
41860-229250

ASSIGNOR:

Signature: [Signature]  
Name: James GLEW  
EXECUTED this 14 day of January, 2007.

WITNESS: BARBARA C. WINKES

Signature: [Signature]  
Address: THE SCHOOL HOUSE, EAST MOUNTAIN ROAD,  
HELMSTET, Y062 515

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Simon GRAHAM  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Nyerhovwo J. ONUKARI  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Matasuke YAMAGE  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Yoshikazu HONDA  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Roger PELLE  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Duncan MWANGI  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

WORLDWIDE ASSIGNMENT

Attorney Docket  
41860-229250

-2-

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Jane GLEW  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: [Signature]  
Name: Simon GRAHAM  
EXECUTED this 26 day of OCTOBER, 2006.

WITNESS:

Signature: [Signature]  
Address: 30709 Nth Rd B1

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Nyerhovwo J. ONUKARI  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Matasuke YAMAGE  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Yoshikazu HONDA  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Roger PELLE  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Duncan MWANGI  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_



WORLDWIDE ASSIGNMENT

Attorney Docket  
41860-229250

-2-

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Jane GLEW  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Simon GRAHAM  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: [Signature] TONUKARI  
Name: Nyerhovwo J. ONUKARI  
EXECUTED this 7 day of NOV, 2006.

WITNESS: UBARA OGAGA A.

Signature: [Signature]  
Address: BIOCHEM. DEPT. OELSG.  
ABRKA, NIGERIA.

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Matasuke YAMAGE  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Yoshikazu HONDA  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Roger PELLE  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Duncan MWANGI  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

2007年 1月15日 17時07分

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NO. 1672 P. 4

WORLDWIDE ASSIGNMENT

Attorney Docket  
41860-229250

-2-

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Jane GLEW  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Simon GRAHAM  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Nyerhovwo J. ONUKARI  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR: Mat Yamage

Signature: M Yamage  
Name: Matesiko YAMAGE  
EXECUTED this 12 day of January, 2007.

WITNESS:

Signature: YASUOKI OKETANI  
Address: 2-15-8 Mukogata Bunkyo-ku  
Tokyo JAPAN

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Yoshikazu HONDA  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Roger PELLE  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Duncan MWANGI  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

WORLDWIDE ASSIGNMENT

Attorney Thomas  
4126-330250

2.

ASSIGNOR

Signature: \_\_\_\_\_  
Name: John GLEW  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR

Signature: \_\_\_\_\_  
Name: Sharon GRAHAM  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR

Signature: \_\_\_\_\_  
Name: Mythron J. LINDA  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR

Signature: \_\_\_\_\_  
Name: Asaph (A) NASTA  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR

Signature: 佐多馬良  
Name: Yoshitaka TOMITA  
EXECUTED this 11 day of October, 2006.

WITNESS

Signature: (Signature)  
Address: 46-10000 RD, WASHINGTON VA 22192-51  
Ph: 703-214-5111

ASSIGNOR

Signature: \_\_\_\_\_  
Name: Roger PELLE  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR

Signature: \_\_\_\_\_  
Name: Sharon M. NASTA  
EXECUTED this \_\_\_\_\_ day of \_\_\_\_\_, 2006.

WITNESS

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

WORLDWIDE ASSIGNMENT

Attorney Docket  
41860-229250

-2-

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Jane GLEW  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Simon GRAHAM  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Nyerhovwo J. ONUKARI  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Matasuke YAMAGE  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Yoshikazu HONDA  
EXECUTED this \_\_\_\_ day of \_\_\_\_\_, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: \_\_\_\_\_

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Roger PELLE  
EXECUTED this 10 day of January, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: Box 3000, Nairobi, Kenya

ASSIGNOR:

Signature: \_\_\_\_\_  
Name: Duncan MWANGI  
EXECUTED this 11 day of January, 2007.

WITNESS:

Signature: \_\_\_\_\_  
Address: Box 1000, Nairobi, Kenya

Application No.: 10/573,033

Docket No.: 41860-229250

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Evans TARACHA et al.

Art Unit: Not Yet Assigned  
Examiner: Not Yet Assigned

Application No: 10/573,033

International Appln. No.:  
PCT/US2004/030831

Confirmation No: 8939

International Filing Date:  
September 21, 2004

Filed: March 22, 2006

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For: ANTIGENS FOR AN EAST COAST  
FEVER VACCINE

Customer No:

26694

PATENT TRADEMARK OFFICE

**JOINT ASSIGNEE'S CONSENT TO CHANGE OF INVENTORSHIP**

In accordance with 37 C.F.R. § 1.324, The Institute for Genomic Research consents to the petition to change the inventorship of the above-referenced patent to add Elizabeth Jane GLEW; Simon GRAHAM; Nyerhovwo J. TONUKARI; Yoshikazu HONDA; Roger PELLE; Duncan MWANGI; and Matasuke YAMAGE as joint inventors. Pursuant to 37 C.F.R. § 3.73(b), The Institute for Genomic Research certifies that it is the joint assignee of the above-referenced invention by virtue of the assignment of inventors Malcolm J. GARDNER and Vishvanath NENE recorded at Reel/Frame 018807/0093.

The undersigned has reviewed the assignment and to the best of the undersigned's knowledge and belief, joint title is in the said assignee. The undersigned, whose title is supplied below, is empowered to sign this certificate on behalf of the said joint assignee.

I declare under penalty of perjury under the laws of the United States of America that the foregoing assignment information is true and correct.

Date: 2/14/07

Respectfully submitted,

By: Claire Fraser-Liggett  
Name: Claire Fraser-Liggett  
Title: President  
The Institute for Genomic Research  
9712 Medical Center Drive  
Rockville, Maryland 20850

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JANUARY 25, 2007

PTAS

**\*500213133A\***NANCY J. AXELROD  
VENABLE LLP, 575 7TH STREET, N.W.  
41060-229250  
WASHINGTON, DC 20004-1601**\*500213133A\***UNITED STATES PATENT AND TRADEMARK OFFICE  
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RECORDATION DATE: 01/25/2007

REEL/FRAME: 018807/0093  
NUMBER OF PAGES: 3BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 41860-229250

## ASSIGNOR:

GARDNER, MALCOLM J.

DOC DATE: 01/27/2005

## ASSIGNOR:

NENE, VISHVANATH

DOC DATE: 01/27/2005

## ASSIGNEE:

THE INSTITUTE FOR GENOMIC RESEARCH  
9712 MEDICAL CENTER DRIVE  
ROCKVILLE, MARYLAND 20850

SERIAL NUMBER: 10573033

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: ANTIGEN FOR AN EAST COAST FEVER VACCINE

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01880//0093 PAGE 2

ASSIGNMENT SERVICES BRANCH  
PUBLIC RECORDS DIVISION

WORLDWIDE ASSIGNMENT

WHEREAS Malcolm J. GARDNER and Vishvanath NENE, hereinafter (collectively) referred to as the assignor, invented a certain improvement relating to ANTIGENS FOR AN EAST COAST FEVER VACCINE, for which said assignor has caused a PCT international application to be prepared, designating the United States, said application having been filed in the United States Receiving Office on September 21, 2004, Serial No. PCT/US2004/030831, claiming priority from provisional application: U.S.S.N. 60/504,428 filed September 22, 2003 and International application no. PCT/US2004/022605 filed July 14, 2004.

WHEREAS THE INSTITUTE FOR GENOMIC RESEARCH, 9712 Medical Center Drive, Rockville, Maryland, 20850, United States of America hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefore, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire and exclusive right, title, and interest for the United States in and to the invention, the application, and any patents which may be granted therefor, including any and all nonprovisional, divisions, continuations, in whole or in part, substitutions, renewals, reissues, reexaminations, and extensions thereof, and all applications claiming priority therefrom; and Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the invention, or patents resulting therefrom, insofar as their interest is concerned, to Assignee; to have, hold, exercise, and enjoy, with all the rights, powers, privileges, and advantages in anywise arising therefrom or appertaining thereto, for and during the term or terms of any and all such patents when granted, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as Assignor might or could have held and enjoyed the same, if this assignment had not been made.

Assignor further hereby assigns, sells and transfers, and has assigned, sold, and transferred to Assignee, its successors and assigns, the entire right, title and interest in all countries of the world, in and to the invention and in and to the application and all patents which may be granted therefor, and all international applications, national applications, regional applications, divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, including the right to file applications and obtain patents for the invention in its own name, in all countries and including all rights of priority in all countries under the terms of any applicable international convention, insofar as its interest is concerned; and the Assignor hereby authorizes and requests the applicable patent office in each country of the world to issue all patents for the invention, or patents resulting therefrom, insofar as its interest is concerned, to the Assignee, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of such patents for the invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made.

The Assignor further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agrees, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce proper patent protection for said invention.



WORLDWIDE ASSIGNMENT

IN WITNESS WHEREOF, each individual collectively referred to as Assignor has caused this Assignment to be executed.

Dated this 27<sup>th</sup> day of JANUARY, 2005.

WITNESS:

Signature: [Signature]  
Name: Michael J. Brown

ASSIGNOR:

Signature: [Signature]  
Name: Malcolm J. GARDNER  
Address: 10416 OVERGATE PLACE  
POTOMAC MD 20854

Dated this 23<sup>rd</sup> day of JANUARY, 2005.

WITNESS:

Signature: [Signature]  
Name: Michael J. Brown

ASSIGNOR:

Signature: [Signature]  
Name: Vishvanath NENE  
Address: 11601 Milken Drive  
Potomac, MD 20854

Docket No.: 41860-229250  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Evans TARACHA et al.

International Appln. No.:  
PCT/US2004/030831

International Filing Date:  
Sept. 21, 2004

Application No.: 10/573033

Confirmation No.: Not Yet Assigned  
Art Unit: Not Yet Assigned  
Examiner: Not Yet Assigned

Filed: March 22, 2006

For: ANTIGENS FOR AN EAST COAST FEVER  
VACCINE

Customer No.

**26694**

PATENT TRADEMARK OFFICE

**STATEMENT OF ADDED INVENTORS UNDER 37 C.F.R. § 1.48(a)**

Assistant Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

An error in inventorship occurred with this application, namely the omission of Jane Glew, Simon Graham, Nyerhovwo J. Onukari, Matasuke Yamage, Yoshikazu Honda, Roger Pellé, and Duncan Mwangi as named inventors. This error in inventorship occurred without deceptive intention on the part of the undersigned. Accordingly, please amend the application to include the undersigned as inventors.

Date: 14<sup>th</sup> January 2007

*[Signature]*  
EUPASEN Jane GLEW  
14/1/07

Date: \_\_\_\_\_

Simon GRAHAM

Docket No.: 41860-229250  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Evans TARACHA et al.

International Appln. No.:  
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**26694**

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Date: \_\_\_\_\_

Date: 17/10/2006

\_\_\_\_\_  
Jane GLEW

  
\_\_\_\_\_  
Simon GRAHAM

STATEMENT OF ADDED INVENTORS

Attorney Docket  
41860-229250

Date: 18/October/2006

本田 幸雄  
Yoshikazu HONDA

Date: \_\_\_\_\_

\_\_\_\_\_  
Duncan MWANGI

Date: \_\_\_\_\_

\_\_\_\_\_  
Nychorwo J. ONUKARI

Date: \_\_\_\_\_

\_\_\_\_\_  
Roger PELLE

Date: \_\_\_\_\_

\_\_\_\_\_  
Masahito YAMAGE

TM-292

STATEMENT OF ADDED INVENTORS

Attorney Docket  
41860-229250

Date: \_\_\_\_\_

\_\_\_\_\_  
Yoshikazu HONDA

Date: \_\_\_\_\_

\_\_\_\_\_  
Duncan MWANGI

Date: 7 Nov. 2006

*[Signature]*  
Nyerhovwo J. ~~ONUKARI~~  
TONUKARI

Date: \_\_\_\_\_

\_\_\_\_\_  
Roger PELLE

Date: \_\_\_\_\_

\_\_\_\_\_  
Matasuke YAMAGE

786362

## STATEMENT OF ADDED INVENTORS

Attorney Docket  
41860-229250

Date: \_\_\_\_\_

Yoshikazu HONDA

Date: \_\_\_\_\_

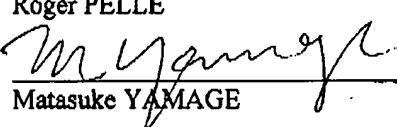
Duncan MWANGI

Date: \_\_\_\_\_

Nyerhovwo J. ONUKARI

Date: \_\_\_\_\_

Roger PELLE

Date: 12 January 2007  
Matasuke YAMAGE

786362

STATEMENT OF ADDED INVENTORS

Attorney Docket  
41860-229250

Date: \_\_\_\_\_

Yoshikazu HONDA

Date: 11-01-07

Duncan MWANGI

Date: \_\_\_\_\_

Nyerhovwo J. ONUKARI

Date: 10-01-2007

Roger PELLE

Date: \_\_\_\_\_

Matasuke YAMAGE

786362